

**BUREAU OF HIGHWAYS
REQUEST FOR PROPOSAL
for
QUALIFICATIONS BASED SELECTION FOR PREQUALIFIED SERVICES**

The Michigan Department of Transportation (MDOT) is seeking professional services for the project contained in the attached scope of services.

If your firm is currently prequalified for this type of work and you are interested in providing services, please indicate your interest by submitting a Proposal. The Proposal must be submitted in accordance with the latest "Vendor Selection Guidelines for Service Contracts", available on the MDOT website.

For efficiency sake, we are asking that the vendor firm provide 3 paper copies of the Proposal to the MDOT project manager named below.

Armando V. Lopez Jr., P.E., Resident Engineer
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Davison, Michigan 48423
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email: lopeza@michigan.gov

These copies must be received by **November 22, 2004** at 1:00 PM EST. Fax and electronic copies are not acceptable.

In addition, provide one unbound copy to:

Regular Mail:
Secretary, **Operations Contract Support**
Michigan Department of Transportation
P.O. Box 30050
Lansing, MI 48909

OR

Overnight Mail:
Secretary, **Operations Contract Support**
Michigan Department of Transportation
425 W. Ottawa
Lansing, MI 48933

This copy is to be received within three working days after the due date and time specified above. Please do not deliver in person.

Any questions relative to the scope of services must be submitted by e-mail to the MDOT project manager. Any questions must be asked at least three working days prior to the due date and time specified above. All questions and their answers will be placed on the MDOT website as soon as

possible after receipt of the questions. The names of vendors submitting questions will not be disclosed.

For a cost plus fixed fee contract, the selected vendor must have a cost accounting system to support a cost plus fixed fee contract. This type of system has a job-order cost accounting system for the recording and accumulation of costs incurred under its contracts. Each project is assigned a job number so that costs may be segregated and accumulated in the vendor's job-order accounting system.

The selection team will review the information submitted and will select the firm considered most qualified to perform the engineering services based on the proposals. The selected vendor will be contacted to confirm capacity. Upon confirmation, that firm will be asked to prepare a priced proposal. Negotiations will be conducted with the firm selected.

MDOT is an equal opportunity employer and MDOT DBE firms are encouraged to apply. The participating DBE firm, as currently certified by MDOT's Office of Equal Opportunity, shall be listed in the Proposal.

The proposal should include the following:

A chart or table (see attached for format) for the inspectors showing what items they are qualified, have experience (within the last 5 years) and certified, including but not limited to the following: Concrete testing and inspection, HMA testing and inspection, inspection of guardrail work, inspection of cantilever and truss signs, drainage work, water main work, temporary traffic control, density testing and inspection, bridge painting testing and inspection, surveying, traffic control, structural steel repairs, concrete work for bridge and pavement, installation of sheet piling, installation of piles, force account records and bridge replacement work and MDOT office technician duties and functions. The chart or table should also indicate the duration or length of time that the person has performed the function, or this should be shown on the resume. The attached example chart is just an example and can be modified to fit the consultant's format.

SCOPE OF SERVICES FOR:

CONSULTANT CONSTRUCTION "AS NEEDED" SERVICES, TO INCLUDE:

PROJECT LOCATION: Various See list in Solicitation

CONTROL SECTION, JOB NUMBER: Various See list in Solicitation

DESCRIPTION OF WORK: As needed Construction Testing and Inspection

I Primary Prequalification Classification:

Aggregate Inspection & Testing

Bituminous Plant Inspection & Testing or Bituminous Paving Inspection & Testing
(will accept one or the other-both are not required)

Density Inspection & Testing

Portland Cement Concrete Inspection & Testing

Construction Staking

The anticipated start date of the service is March 1, 2005.

The anticipated completion date for the service is December 31, 2005.

General Description of Work:

Provide a list of a minimum of three (3) experienced personnel for each of the inspection and testing services on an as needed basis for the work groups outlined below. These personnel will be designated as "key" on the table discussed above. Other names can also be on the table but during the scoring the "key" personnel will be given more weight. The "key" personnel will also be the TSC's first choice for inspectors, and should have adequate capacity for the work. It should be noted that the person doing the inspection for the required work will also be required to perform their own testing. Preference will be given to the firm that can perform inspection and testing and mention this in their LOI. If the firm has personnel that can work in several or all of the work groups, put this person down for each group. The Davison TSC prefers to have one inspector that moves from one project to another for the services required and can work in several or all of the work groups. Preference will be given to the firm that could supply such a person or several people. Inspection services may be needed full time (overtime may be necessary), beginning March 1, 2005, or as soon as the contracted services are awarded, through December 31, 2005. Some of the projects may also require night work. The consulting firm shall not be considered by the selection committee if the aforementioned stipulations are not met.

Work Group 1:

Inspection and testing services may be needed for "Road Work" items hot mix asphalt (HMA) construction, Portland cement concrete construction, concrete pavement repairs, guardrail installation, new freeway construction, permanent signing, truss and cantilever signs, foundation installation, traffic signal installation, earth work items, temporary traffic control items and other road construction operations. These inspection and testing services are anticipated to be primarily during "normal" working hours, Monday through Sunday, but some night work may be

required.

Work Group 2:

Inspection and testing services may be needed for "Bridge Work" items hot mix asphalt (HMA) construction, Portland cement concrete construction, concrete pavement repairs, guardrail installation, bridge approach construction, permanent signing, bridge maintenance work, pin and hangers, structural steel blasting and painting, structural steel and concrete repairs, bridge deck overlays, temporary traffic control, rip-rap installation within streams and other bridge construction operations. These inspection and testing services are anticipated to be primarily during "normal" working hours, Monday through Sunday, but some night work may be required. Night work that may be required would be for hydrodemolition work, setting and removing beams, some of the demo work and night pours.

Work Group 3:

This work group will be for surveying and construction layout and may involve some or all of the following:

This work group will consist of performing all construction staking operations that are to be performed by "the Engineer" as indicated in the Special Provision for Staking Bridges in combined Bridge/Road Projects using Contractor Staking SP104(A), the Special Provision for Contractor Staking and the MDOT 1996 Standard Specifications, 2003 Interim Standard Specifications and or the 2003 Standard Specification for Construction. On projects that contain a bridge portion and the Contractor Staking provisions have been removed the consultant will be responsible for setting all grades, elevations etc necessary for construction of the bridge as determined by the Project Engineer Manager.

Right of Way staking (requires a Licensed Land Surveyor), establishing horizontal and vertical control points, and establishment of bench marks shall be performed by the Consultant. Consultant services will begin upon approval for consultant services from MDOT. No work is to start on this contract until approval is received.

The Consultant shall furnish all services, equipment and labor necessary to conduct and complete the Consultant Construction Staking Services described herein. The Consultant shall also furnish all materials, equipment, supplies, and incidentals necessary to perform the Services (other than those designated in writing to be furnished by the Department), and check and/or test them prior to use in carrying out this work.

Full-time services will not be required for all projects at all times. This contract is for "as-needed" services, based on the intermittent needs of the project office for inspection and testing personnel. The Consultant's point of contact will be contacted with the requests for staff. Every attempt will be made to submit requests and schedule at least one week prior to the need for personnel, however it is expected that any requests made will be complied with within a 24 hour period.

The consultant inspector(s) will report and be directly responsible to the Project Manager. Work

hours and assignments will be given to the consultant inspector(s) by the Project Manager and/or duly appointed representatives from the Davison TSC, appointed by the Resident Engineer. The consultant inspector(s) will cooperate with the senior level MDOT Technicians and above to ensure that adequate inspection and testing services are provided. The initial authorization will be set up for 3,500 hours it is anticipated that approximately 3,000 of the hours would be for inspection/testing and 500 for survey type work.

The projects that these services may be utilized on include, but are not limited to:

C.S. / J.N.	Location	Description	Approx. Start	Approx. Completion
25031-75247A, 77056A, 77059A & 77902A	US-23 from I-75 to Thompson Road and bridges at Hill, Baldwin, Grand Blanc, Torrey, Thompson and I-75 over Bristol Road	On US-23 concrete reconstruction, on the bridges at Hill and Bristol also reconstruction other bridges include, Deck Overlays, pin and hangar, zone painting, and approach work.	April 2005	Nov. 2005
25101-53198A	M-57 from WCL Clio to M-54	Reconstruction, water main, mill and resurface.	April 2005	Aug. 2005
25102-79834A	M-57 from M-54 to M-15 & on M-47 from M-46 to M-47 bypass	Paver placed surface seal and single chip seal shoulders. Contractor has 25 work days to complete.	April 2005	Nov 2005
25042-78926A	I-69 & Miller Road	Construction of park and ride lot.	Sept. 2005	Oct. 2005
44012-79829A	M-15, M-24, M-25, M-46, M-53, M-54, M-57, M-138, M-142 and US-23BR in Huron, Sanilac, Tuscola, Genesee and Lapeer Counties	HMA Crack Treatment. Contractor has 45 work days to complete.	May 2005	Nov. 2005
25132-75966A	I-475 from I-75 to I-75	Freeway signing upgrade.	March 2005	June 2005
25071-55787A	M-15 Oakwood Road in Ortonville	Wetland Mitigation.	June 2005	Oct. 2005

Various-77913A & 77915A	City of Flint	11 Signals at various locations	March 2005	June 2005
25074-79835A	M-54 from I-75 to Hill Road	Mill and Resurface.	Sept 2005	Oct. 2005

GENERAL:

The Consultant shall furnish all services and labor necessary to conduct and complete the Construction Engineering Services described herein. The Consultant will also furnish materials, equipment, supplies, and incidentals necessary to perform the Services (other than those designated in writing to be furnished by the Department), and check and/or test the materials, equipment, supplies, and incidentals as necessary in carrying out this work. The Services will be performed to the satisfaction of the Department consistent with applicable professional standards.

- A. The Consultant's principal contact with the Department will be through the designated Project Manager, or his/her designee.
- B. The Services described herein are financed with public funds. The Consultant will comply with applicable Federal and State laws, rules, and regulations. The Consultant will perform field operations in accordance with MIOSHA regulations and accepted safety practices. The Consultant will wear personal safety equipment in accordance with MDOT policy while on the project. Vehicles that the consultant uses will be in good working condition and if on the project site will be required to have a rotating beacon as well as conspicuity tape on the back of the vehicle as well as the rear two quarter panels.
- C. The Consultant agrees to demonstrate knowledge of, and performance in compliance with, the standard construction practices of the Department; the Project construction contract, proposal, and plans; the Standard Specifications for Construction and applicable publications referenced within; the Michigan Construction Manual; the Materials Source Guide; the Materials Quality Assurance Procedures Manual; and all other references, guidelines, and procedures manuals needed to carry out the work described herein in an appropriate manner.
- D. The Consultant will notify the Project Manager, in writing, prior to any personnel changes from those specified in the Consultant's original approved proposal. Any personnel substitutions are subject to review and approval of the Project Manager.
- E. The Consulting firm shall be responsible for any errors that occur on the project due to inspection, testing or staking errors. The Consultant will be responsible to compensate MDOT for the additional costs incurred due to the error on the project. At such time the error is discovered MDOT will meet with the Consultant to discuss options to rectify the error. Once final costs are received from the Contractor for the additional work to rectify the problem MDOT will forward a copy to the consultant for reimbursement.

GENERAL DESCRIPTION OF INSPECTION AND TESTING SERVICES:

The Consultant will provide, to the satisfaction of the Department, Inspection and Testing

Services in the areas of HMA Construction Inspection and Testing Services, Portland Cement Concrete Construction Inspection and Testing Services, Density Inspection and Testing Services, and Staking Services as needed. Reporting, measurement, computation, and documentation requirements directed by the Project Manager and/or referenced in the Specifications, Plans, Proposal, the Michigan Construction Manual, the MDOT Materials Source Guide and all other applicable references, guidelines, and procedures manuals and associated with this Construction Inspection and Testing Services work is also included.

INSPECTION AND TESTING SERVICES TO BE PERFORMED BY THE CONSULTANT:

A. For Project Administration:

1. The Consultant will provide the necessary personnel to adequately perform the requirements of this Agreement, and that his/her employees will possess the experience, knowledge, and character to qualify them for the particular duties each is to perform.
2. The Consultant will furnish necessary inspection, and testing, and staking equipment needed to carry out the inspection testing and staking services.
3. The consultant will provide the inspector(s) lap top computers (or equivalent) with the most current Field Manager and/or Field Book software, and the inspector(s) will produce all daily inspection reports in this format. The inspectors will deliver all inspection reports to the Project Manager's field office daily, or as arranged.

Staff Reductions: Withdraw any personnel or halt any services no longer required, at the request of the Department, or within a reasonable time after the lack of need becomes apparent to the Consultant or the Project Manager. The Consultant will not be reimbursed for the cost of personnel charged to a project that the Project Manager has determined was unnecessary.

B. For Project Inspection:

- a. **Inspectors:** Perform as the Inspector for the Project consistent with the Department's practice and in accordance with the Specifications, Plans, Proposal, the Michigan Construction Manual, the Materials Source Guide, and other applicable references, guidelines, and/or procedures manuals. The Inspector(s) will be assigned this Project with a sufficient number of technically qualified and experienced personnel to perform the Services required under the Agreement in a timely manner to avoid delay to the Construction Contractor.
- b. **NPDES Inspection:** An MDEQ certified NPDES Stormwater Operator will be assigned to inspect and document the project per the NPDES requirements. Any violation of the NPDES permit by the construction contractor must be immediately reported to the Project Manager. Personnel performing inspection on areas where soil and erosion control are needed, must have completed the Soil and Erosion Control training, Phase 1.

- c. **Traffic Control:** The Consultant will furnish inspectors qualified to assure contract compliance with Traffic Control requirements. Inspectors will be familiar with Department policies and Part 6 of the MMUTCD.
- d. **Coordination:** Provide appropriate coordination, contact, and cooperation with affected local, state, and/or federal agencies; other Consultants and other Contractors; the general public; utilities and railroad companies; and local police, fire, and emergency services which may be affected by the Project and which are deemed to be the responsibility of the Consultant by the Department.
- e. The inspectors will be equipped with Nextel Two way cellular phones. The phones/pagers can not be charged as a direct expense to the project.
- f. The Consultant will immediately bring to the attention of the Project Manager any failure by the Contractor to comply with a plan or specification requirement, any problem, trends toward borderline compliance, or any other occurrence which may require resolution. The Consultant will also arrange, if necessary, meetings for the resolution of such matters and notify the Project Manager.
- g. **Staking:** Perform staking in accordance with Department standards, including, but not limited to, any staking to be performed by the MDOT Engineer as indicated in section 104.08 in the Standard Specifications for Construction, SP104(A) Contractor Staking, and SP104(B) Staking Bridges in Combined Bridge/Road Projects using Contractor Staking, to ensure accuracy and compliance with the contract documents. This includes preliminary project staking and construction verification staking. Notify the Project Manager of any plan errors, discrepancies or omissions identified by the Contractor and/or Consultant.
- h. **Progress:** Keep daily diaries, sketches, logs, and records consistent with Department practice as may be needed to record the Contractor's progress. Notify the Project Manager of any anticipated Contractor's requests for extensions of time. Notify the Project Manager upon receipt of any Contractor's requests for extensions of time.
- i. **Changes/Extras/Adjustments:** Notify the Project Manager immediately of any unanticipated Project conditions and any changes, extras, or adjustments to the contract.
- j. **Contentious Issues:** Notify the Project Manager of any problems, issues, discrepancies, or other items brought to the attention of the Consultant by the Contractor. Provide written documentation of the resolution of such issues.

- k. **Consultant Deliverables:** Collect, properly label or identify, and deliver to the Department any original diaries, logs, notebooks, accounts, records, reports, as constructed plans, other documents, and Project files prepared by the Consultant in the performance of the Agreement, upon completion or termination of the Agreement. Return, upon completion or termination of the Agreement, Specifications, Manuals, guides, written instructions, construction contracts and plans, unused forms, and any other documents and materials furnished by the Department. The Consultant may be responsible for replacing lost documents or materials at a fair and reasonable price.

C. For Quality Assurance Testing and Reporting:

1. **Material Testing:** Sample and/or test materials (except off site produced -aggregates, concrete cylinder breaks, and HMA plant testing) to be incorporated in the work, including but not limited to, concrete quality assurance testing, on-site aggregates, and density testing and reporting, according to Materials Source Guide, and reject Contractor's work and materials not meeting the Specifications, Plans, Proposal, the Michigan Construction Manual, Materials Quality Assurance Manual, and all other applicable references, guidelines, and procedures manuals. Determine the acceptability of materials found to be in non-compliance.

Acceptance samples, tests, and reporting procedures will conform to the Specifications, Proposal, MDOT Materials Source Guide and other applicable references, guidelines, and procedures manuals prescribed by the Department.

2. **Material Certification:** Coordinate with MDOT office staff to make certain that acceptable test reports and material certifications from the supplier have been received, prior to the incorporation of materials in the work, for materials tested off the Project site.
3. **Materials Reports:** Submit materials test reports (including, but not limited to Moisture and Density 582B, Inspector's Report of Concrete Placed 1174A, Aggregate Inspection Reports 1900 & 1901, Bituminous QA reports, and Concrete QA reports, etc.) according to the distribution list on a daily basis, within one work day following the testing. The efficiency of the consultant in getting the "Moisture and Density Determination, Nuclear Method", Form 582B, copy to the Lansing, Density Technology Unit, 8885 Ricks Road, Lansing Mich 48909 will be measured by that unit and reported to the Project Manager.
4. **Testing Personnel:** For aggregate, concrete, density, and HMA testing, utilize only personnel certified according to current Department requirements. Personnel will be certified on all projects (not just NHS projects).

The concrete testing inspector will be certified as a Concrete Technician Michigan Level I through a program certified by Michigan Concrete Association Board of Examiners or the Michigan Concrete Paving Association. The inspector shall have at their disposal all equipment to perform verification testing on the concrete.

Any inspector involved in sampling or testing of Hot Mix Asphalt must be a Michigan

Qualified Bituminous QC/QA Technician.

Any inspector performing sampling or testing of aggregates must be a current Michigan Certified Aggregate Technician.

Any person performing density testing or handling of nuclear density testing equipment must have complete the Michigan Density Technology Certification Program and successfully completed radiation safety training.

If requested by the Department the consultant will supply all certification and calibration information for equipment and employees.

5. **Density Gauge:** The inspector will provide a Troxler Density Gauge and comply with all requirements related to the use of this gauge established by the Nuclear Regulatory Commission and MDOT. This gauge should be calibrated to meet MDOT requirements. If requested the Consultant will supply a copy of their license to MDOT. All MDOT safety requirements must also be followed by the consultant.

D. For Measurement, Computation, Documentation, and Record-keeping:

1. **Documentation:** Measure and compute quantities, and provide appropriate documentation of all materials incorporated in the work and items of work completed, and maintain an item record account using FieldManager or FieldBook software. The consultant must obtain and be able to use the most current available version of FieldManager as the primary system for automation of all required documentation for this project. Contact **Info Tech** at (352) 375-7624 or fax (352) 373-9586 or (www.infotechfl.com) to obtain software and information on training.
2. Assist in maintaining As-Constructed Plans throughout the project, showing any field changes, final utility locations, substantial quantity changes, etc. Verify the As-Constructed Plan information that is required to be provided by the Contractor.
3. **Reports-Consultant Generated:** Prepare such periodic, intermediate and final reports and records as may be required by the Department and as are applicable to the Project, which may include, but are not limited to:
 - a. Inspector's Daily Reports
 - b. Work Orders, (Form 1137)
 - c. Moisture and Density Determination Reports (Form 582BM)
 - d. Inspector's Report of Concrete Placed (Form 1174A-M)
 - e. NPDES Stormwater Operator Reports, (Form 1126)
 - f. Labor Compliance, such as the Weekly Employment and OJT Report (Form 1199)
 - g. Mechanical Analysis, (Form 1901)
 - h. Bi-Weekly Construction Progress Report (Form 1102A) and Weekly Statement of Working Days Charged (Form 1116), if applicable
 - i. Final Quantity Sheets

- j. Force Accounts
- k. Contractor Evaluation (Form 1182), and
- l. Other records and/or reports as required for the individual Project by the Project Manager and/or as required by Specifications, Plans, Proposal, the Michigan Construction Manual, the Materials Source Guide, and other applicable references, guidelines, and/or procedures manuals.

E. For Finaling All Project Documentation:

- 1. **Final Measure and Summarize:** Final field measure applicable items of work. Prepare final summaries for applicable items of work.
- 2. **Project Review/Certification:** If requested, participate in and resolve items determined to be insufficient during the Department's review(s) of project records prior to submittal of the Final Estimate.

Within 45 calendar days of the actual project completion date, the project records will be ready for the Final Records Review.

SERVICES TO BE PERFORMED BY THE DEPARTMENT:

- A. The Project Manager will furnish to the Consultant Project-specific construction contracts, proposals, plans, plan revisions, written instructions, and other information and/or data as deemed necessary by the Project Manager for the Services required herein. Only a limited number of proposals and plans may be available. If needed the consultant will be supplied with one set of plans and proposal for each inspector on the job, at one time. If the consultant needs additional sets they will need to get them copied at their own cost.
- B. The Department will furnish concrete cylinder breaks, off-site aggregate testing, off-site inspections and tests of steel, cement, HMA mixture designs, sewer and drainage pipe, structural steel, prestressed girders and beams, traffic signs, and any other materials customarily tested in the Department laboratories with its own forces or by statewide contracts. The customary testing is described in the Materials Quality Assurance Manual with exceptions noted within the Specifications, Plans, and Proposal. The Consultant will be responsible for the sampling and transportation of all the materials to be tested by Department personnel.
- C. The Department will provide the bituminous plant inspection required for Quality Assurance and will submit the QA reports to the Consultant Project Engineer for analysis and action. The Consultant will still be responsible for all on-site bituminous inspection required, including, but not limited to, locating the required Quality Assurance cores, and coordinating with the contractor regarding this sampling.
- D. The Department may perform soil borings and subsurface investigation as necessary throughout the contract.
- E. The Department shall provide the office technician staff to maintain the project files in accordance with MDOT procedures. The Consultant inspector will coordinate with the Department's staff to submit the required documentation, as indicated elsewhere in this

Scope of Services. This may involve emailing documentation to the consultant inspector or an appointed person at the consultant's office.

CONSULTANT PAYMENT:

All invoices/bills for services will be directed to the Project Manager for review and approval. Payment to the Consultant for Services rendered shall not exceed the "Cost Plus Fixed Fee Not to Exceed Maximum Amount" unless an increase is approved in accordance with the contract with the Consultant. All invoices must be submitted within **30 calendar days** from the last date of services being performed for that invoice. **No reimbursement for overtime will be made unless prior written approval is made by the Project Manager. In general, payment will not be made for overtime unless consultant personnel work more than 40 hours in the week on this authorization.**

The latest copy of "Instructions for Requesting Reimbursement of Contract Costs" is available on MDOT's Bulletin Board system. This document contains instructions and forms that must be submitted for Consultant reimbursement. Payment may be delayed if the instructions are not followed.

Name	Y/N	Y/N	Y/N	Y/N	Key Personnel for Work Group 1 Key Personnel for Work Group 2 Key Personnel for Work Group 3 Concrete Testing & Inspection HMA Inspection Guardrail Inspection Cantilever Sign Inspection Truss Sign Inspection Drainage Inspection Water main inspection Temporary Traffic Control
Freeway					
Non-freeway					
Using Temporary Concrete barrier					
Aggregate					

Clay	Years of Experience (max 5 years)	
HMA		
Y/N Aggregate		Density Inspection & Testing
Y/N Clay	Certified (information included on resume)	
Y/N HMA		
Construction Layout	Years of Experience (max 5 years)	Bridge painting inspection
ROW Staking/Licensed		
Bridge Layout	Years of Experience (max 5 years)	Surveying
Horizontal Control		
Vertical Control		
Structural Steel Repairs		
Concrete approach paving		
Steel Beam bridges		
Installation of Piles		
Hydrodemolishing work		
Bridge demolition procedures	Years of Experience (max 5 years)	Bridge Work Inspection
Bridge Deck Overlays		

Pin & Nailer and Deck joint removal					
Chipping and patching inspection					
Superstructure Concrete					
Substructure Concrete					
HMA Paving (Superpave)					
Geotextile placement					
Open graded drainage inspection					
				Years of Experience (max 5 years)	Mainline Paving Inspection
Reinforced Concrete Paving					
Non-Reinforced Concrete Paving					
Estimated area (SYD) of largest job in last 5 years					
				Approximate \$ of maximum claim	Force Account Work

Years of Experience (max 5 years)	Office Tech Duties
Years of Experience (max 5 years)	Traffic Signal Inspection
Estimated # of Signals in largest job	
Stormwater Certified (expiration & Number on resume)	
Soil Erosion & Sedimentation Controls (Expiration on resume)	Erosion Control Measures
Years of Experience (max 5 years)	
Silt Fence	
Check Dams	
Sediment Traps	